

## **REMARKS**

Applicants will address each of the Examiner's objections and rejections in the order in which they appear in the Office Action.

### **Drawings**

Initially, the Examiner accepts the prior changes made to the drawings but requests that the specification be amended to be consistent with the drawings. Applicants have now done so.

The Examiner also objects to the drawings under 37 CFR §1.83(a). In particular, the Examiner states that the drawings must show every feature of the invention specified in the claims.

Applicants respectfully submit that the drawings do show the claimed features. For example, specific layers of the light emitting element in the claims are referenced by numeral in the drawings; such as, an anode (102 in Figs.1A-C), wirings (703 or 705 in Figs.7C-D) interposed between the anode and an insulator (101 in Fig. 1B or 1C), an insulating film (104 in Fig.1B or 1C), a cathode (107 in Fig.1C) and a luminescent material (106 in Figs.1A-1C) interposed between the anode and cathode, with a COG system (Fig.2). Accordingly, it is requested that this objection be withdrawn.

### **Claim Objections**

The Examiner also objects to Claims 1, 13, 34, 39 and 44 for informalities therein. Applicants have amended each of these claims to correct the informalities therein and to place the claims in a standard U.S. form. It is respectfully submitted that the claims are no longer informal, and it is requested that this objection be withdrawn.

#### Claim Rejections - 35 USC §112

The Examiner also rejects Claims 34-38 under 35 USC §112, first paragraph, as failing to comply with the enablement requirement. In particular, the Examiner alleges that a “COG system is not disclosed in the specification to properly enable any person skilled in the art to make the light emitting display.” This rejection is respectfully traversed.

The Examiner notes that page 9 of the specification of the present application refers to a “COG system.” Applicants have amended this part of the specification to state “Chip On Glass (herein COG) system.” “COG” is a common and well known abbreviation in the art for Chip on Glass. In support thereof, Applicants are submitting web pages of IDTech and BRAEMAC showing that those in the art are well aware of the meaning of “COG.”

Accordingly, it is requested that that this rejection be withdrawn.

#### Claim Rejections - 35 USC §102

The Examiner also rejects Claims 1, 4 and 6 under 35 USC §102(b) as being anticipated by Ito et al. This rejection is respectfully traversed.

In order to advance the prosecution of this application, Applicants have amended independent Claims 1 and 13. In particular, these claims now recite that a cathode is formed over the insulating film. In Ito, the alleged insulating film 6 is formed over the cathode 5. Hence, Ito does not disclose or suggest the claimed invention. Accordingly, it is requested that this rejection be withdrawn.

### Claim Rejections - 35 USC §103

#### Claims 2, 3, 30 and 31

The Examiner also rejects Claims 2, 3, 30 and 31 under 35 USC §103(a) as being unpatentable over Ito. This rejection is respectfully traversed.

These dependent claims are patentable over the cited references for at least the reasons discussed above for the independent claims. Accordingly, it is requested that this rejection be withdrawn.

#### Claims 13-16, 18 and 32-48

The Examiner also rejects Claims 13-16, 18 and 32-48 under 35 USC §103(a) as being unpatentable over Shinoda et al. This rejection is respectfully traversed.

In order to advance the prosecution of this application, Applicants have amended independent Claims 13, 34, 39 and 44. In particular, these claims now recite that a cathode is formed over the insulating film. In Shinoda, the alleged insulating film 17 is formed over the cathode 22. Hence, Shinoda does not disclose or suggest the claimed invention. Accordingly, it is requested that this rejection be withdrawn.

### Conclusion

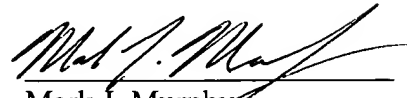
It is respectfully submitted that the present application is now in a condition for allowance, and it is requested that it be allowed.

If any further fee should be due for this amendment, please charge our deposit account 50/1039.

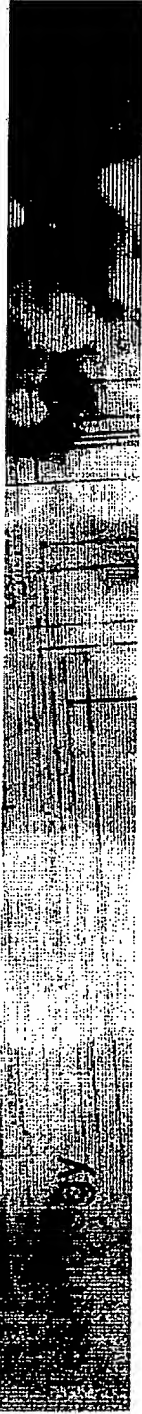
Favorable reconsideration is earnestly solicited.

Respectfully submitted,

Dated: February 6, 2004

  
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Technology

Technical advantages

IDTech LCDs powered by breakthrough technologies

Abbreviations/Technical term

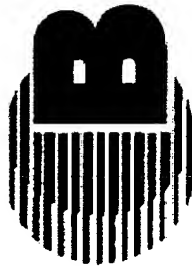
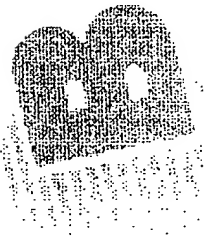
Japanese | English

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Abbreviations/Technical term

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

| Term                       | Description  |
|----------------------------|--|
| <b>A</b>                   |  |
| Active Area/Effective Area | In the viewing area of the LCD glass, the dimensions of the perimeter of the conductive area.  |
| Active Matrix Display      | A type of display which uses Thin-Film Transistors (TFT) to control each pixel individually. Active Matrix Displays offer higher contrast ratios, wider viewing angles, and faster response times than Passive Matrix Displays.  |
| Aperture Ratio             | The actual light-transmitting area against the theoretical sub-pixel size calculated with active area and resolution.  |
| Aspect Ratio               | The relationship of width and height. When an image is displayed on different screens, the aspect ratio must be kept the same to avoid 'stretching' in either the vertical or horizontal direction. For most current monitors, this ratio is 4:3. For HDTV, the ratio will be 16:9 or 16:10. |
| <b>B</b>                   |  |
| Backlight                  | Some LCD displays are illuminated by the use of separate light sources or backlights that are built into the unit behind the LCD panel.  |
| Bezel                      | A frame of plastic or metal, fitting over the LCD glass, to protect the edges of the glass, ESD(Electro Static Discharge), and to reinforce LCD structure.   |
| Brightness                 | The attribute of visual perception in accordance with which an area appears to emit more of less light. (Luminance is the recommended name for the photo-electric quantity which has also been called brightness.)   |
| <b>C</b>                   |  |
| CCFL                       | COLD CATHODE BACKLIGHT, a type of fluorescent backlighting or edge lighting.   |
| CELL GAP                   | The space containing liquid crystal fluid between the two pieces of glass.   |
| COG                        | CHIP-ON-GLASS. A new technology that mounts the LCD driver to the contact edge of the LCD glass.   |
| Contrast Ratio             | The difference in luminance between all-white divided by the brightness of an all black.   |



**BRAEMAC**

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## ● LCD MODULE OVERVIEW

### ● CHARACTER (DOT MATRIX)

Our Character (5 x 7, 5 x 8 or 5 x 11 dot-matrix) type Modules offer plenty to choose from with 8x2 to 40x4 characters and character sizes from 3.63mm to 14.54mm.

A choice of Standard backlight options are offered including - low-power electroluminescent, LED or CCFL backlights, Also low profile edge light options for thinner displays and Reduced cost are offered on selected models.

Our product range is available with Standard or wide-temperature (-20°C to +70°C) operation. All parts include a KS086 compatible controller, which can be ordered for- Standard, European, Cyrillic, Russian, or Greek font options.

With a comprehensive range of different combinations in our regular range, we have the display for your application. If we have no regular range products to suit your requirements, we can always fully

or semi- customise them for you!

### ● MONO-GRAPHIC

Our Mono - Graphic type Modules offer plenty to choose from - 55x32 to 320x240 pixel displays.

A choice of Standard backlight options are offered including - low-power electroluminescent, LED or CCFL backlights, Also low profile edge light options for thinner displays and Reduced cost are offered on selected models.

**This Bonding Method is ideal for applications that require a high volume and low cost.**

**Offers a very low profile as only the glass thickness applies (reflective models).**

**Customisation is relatively simple and mounting is straightforward.**

**Interface would be via connections on the Flex directly to a ZIF socket.**

## **TAB - Tape Applied Bonding - TAB (Abbr.)**